



Grade 7 New York City Companion Kit

Materials needed to teach Amplify Science lessons are provided in a kit for each unit. While some of the materials used in the NYC Companion Lessons are also found in a unit's kit, additional materials are needed for most of the companion lessons. Materials specific to the companion lessons are provided in NYC Companion Kits.

There is one NYC Companion Kit for each grade level, with three NYC Companion Kits across Grades 6–8. The kits contain materials needed to teach all NYC Companion Lessons at that grade level. Multiple units are packaged together for ease of storage and use. The kits contain sufficient amounts of materials to present the companion lessons for that grade level five times for a class of 40 students (i.e., 200 students in total).

Materials at a Glance

Note: Check and follow your district’s safety regulations pertaining to the use of proper safety equipment and procedures for students participating in hand.

Items Provided in the Grade 7 NYC Companion Kit

This is a complete list of all the kit-provided materials needed to present the grade 7 NYC Companion Lessons five times for a class of 40 students.

Note: The NYC Companion Kit for grade 7 may contain additional quantities of some items.

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
100	boxes, cardboard, thin*	Plant Growth Investigations	Metabolism
4	clamp lamps	Plant Growth Investigations	Metabolism
400	corn seeds*	Plant Growth Investigations	Metabolism
400	cotton balls*	Plant Growth Investigations	Metabolism
150	cups, paper, small*	Plant Growth Investigations	Metabolism
200	lids, plastic, clear*	Plant Growth Investigations	Metabolism
6	lightbulbs, 60W	Plant Growth Investigations	Metabolism
200	paper towels, sheets*	Plant Growth Investigations	Metabolism
20	potting soil, quarts*	Plant Growth Investigations	Metabolism
200	radish seeds*	Plant Growth Investigations	Metabolism
4	spray bottles	Plant Growth Investigations	Metabolism
2	tape, masking, rolls*	Plant Growth Investigations	Metabolism
2	batteries, AAA	Identifying Substances	Chemical Reactions
10	bolts, steel	Identifying Substances	Chemical Reactions
11	cups, plastic, 9 oz.	Identifying Substances	Chemical Reactions
10	cylinders, plastic, 25 mL, graduated	Identifying Substances	Chemical Reactions
1	isopropyl alcohol, bottle, 100 mL	Identifying Substances	Chemical Reactions
5	metal density cubes, sets of five	Identifying Substances	Chemical Reactions
1	scale, digital	Identifying Substances	Chemical Reactions
25	stickers, round, white, 1 cm diameter*	Identifying Substances	Chemical Reactions
104	bags, plastic with zip, small*	Investigating Mixtures	Chemical Reactions
20	binder clips	Investigating Mixtures	Chemical Reactions
100	coffee filters, paper*	Investigating Mixtures	Chemical Reactions
250	cups, plastic, 9 oz.*	Investigating Mixtures	Chemical Reactions
10	dropper bottles, plastic, small	Investigating Mixtures	Chemical Reactions
200	gloves, pairs*	Investigating Mixtures	Chemical Reactions

*consumable item



Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
35	iron filings, tablespoons*	Investigating Mixtures	Chemical Reactions
10	magnets	Investigating Mixtures	Chemical Reactions
10	mesh strainers, small	Investigating Mixtures	Chemical Reactions
35	paraffin flakes, tablespoons*	Investigating Mixtures	Chemical Reactions
50	plates, foam, small*	Investigating Mixtures	Chemical Reactions
35	sand, tablespoons*	Investigating Mixtures	Chemical Reactions
50	spoons, plastic*	Investigating Mixtures	Chemical Reactions
50	straws, plastic*	Investigating Mixtures	Chemical Reactions
41	sugar, tablespoons*	Investigating Mixtures	Chemical Reactions

*consumable item

Items to Be Provided by the Teacher

The quantities listed are what you will need to provide to teach the Grade 7 NYC Companion Lessons once for a class of 40 students. Please note that you will need to replenish the consumable items after each class use.

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
1	card, index, large	Reading "How You Are Like a Sneezing Iguana"	Metabolism
1	marker	Reading "How You Are Like a Sneezing Iguana"	Metabolism
1	bowl or dishpan, large	Plant Growth Investigations	Metabolism
2	cards, index, large	Plant Growth Investigations	Metabolism
21	markers or pens	Plant Growth Investigations	Metabolism
10	scissors, pairs	Plant Growth Investigations	Metabolism
20	trays	Plant Growth Investigations	Metabolism
1	card, index, large	Reading "How Do Trees Grow So Huge Without Eating?"	Metabolism
1	marker	Reading "How Do Trees Grow So Huge Without Eating?"	Metabolism
2	cards, index, large	Reading "Icy Heat"	Phase Change
1	marker	Reading "Icy Heat"	Phase Change
3	cards, index, large	Identifying Substances	Chemical Reactions
1	marker	Identifying Substances	Chemical Reactions
5	optional: scales, digital	Identifying Substances	Chemical Reactions



Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
10	trays, plastic	Identifying Substances	Chemical Reactions
	water*	Identifying Substances	Chemical Reactions
1	card, index, large	Investigating Mixtures	Chemical Reactions
1	cup or other container, clear, small (at least 5 oz. capacity)	Investigating Mixtures	Chemical Reactions
40	goggles, safety	Investigating Mixtures	Chemical Reactions
1	marker	Investigating Mixtures	Chemical Reactions
1	pitcher, large	Investigating Mixtures	Chemical Reactions
1	spoon, large	Investigating Mixtures	Chemical Reactions
1	spoon or other utensil, small	Investigating Mixtures	Chemical Reactions
10	tape, masking, large pieces*	Investigating Mixtures	Chemical Reactions
10	trays, plastic	Investigating Mixtures	Chemical Reactions
	water*	Investigating Mixtures	Chemical Reactions

*consumable item

Items From the *Chemical Reactions* Kit

The items listed below are provided in the Amplify Science *Chemical Reactions* materials kit. Please note that you will need to locate these items prior to teaching the Investigating Mixtures Companion Lesson.

Quantity Needed	Manipulatives	Used in Companion Lesson	Associated Unit
1	measuring spoon, tablespoon	Investigating Mixtures	Chemical Reactions
1	measuring spoon, teaspoon	Investigating Mixtures	Chemical Reactions